

Pipe End Plugs

Pipe End Plugs provide a fast and efficient method of installing temporary test caps on plain end pipe for hydrostatic testing up to 350 bar / 5076 psi. Pipe End Plugs reduce time and material costs, minimise environmental impact and improve testing productivity and are robustly designed to sustain the rigours of the fabrication yard environment. STATS range of Pipe End Plugs cover two separate products with the I-PEP™ fitting the pipe internally and the patented E-PEP™ gripping the pipe externally.

Operator Benefits

- ◆ Reduced cost associated with welding / cutting end caps during construction and fabrication activities
- ◆ Saves time with faster completion of hydrostatic testing during construction and fabrication activities
- ◆ Sale or rental options available complete with full ancillary equipment

All Pipe End Plugs are designed in accordance with STATS engineering standards (based on international codes) to facilitate testing in accordance with ASME B31.3 and similar piping codes. Sizes are based on standard pipe with interchangeable seals to cover ASME B36.10 and ASME B36.19 schedules.



▲ 16" E-PEP™ in Shipping Skid



▲ Mechanical I-PEP™ with Securing Clamp

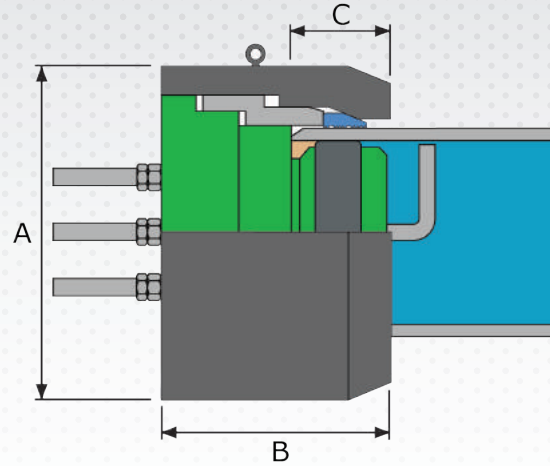
Key Features

- ◆ Simple, straight forward installation, installed and activated in a matter of minutes
- ◆ Test pressure applies differential pressure across the tool keeping the locks and seals self-energised ensuring fail-safe operation
- ◆ Generous radial clearance to cope with typical internal obstructions such as weld beads, ovality, etc
- ◆ Non-destructive, does not damage the interior / exterior wall of pipes or vessels
- ◆ Internal / external grip lock assembly applies even linear and circumferential grip load around the host pipe, eliminating localised material deformity and localised stress fractures
- ◆ High performance, large section, quality elastomer seals ensure a leak tight seal and provide excellent radial expansion and relaxation properties, even after many operating cycles
- ◆ Through-port allows efficient fill or vent of the test medium
- ◆ Robust construction ensures years of trouble free operation even in the harshest environments
- ◆ Suitable for installation in horizontal, vertical and inclined piping

E-PEP™ (External Pipe End Plug)

The E-PEP™ series of patented Pipe End Plugs are fitted to the pipe end and hydraulically actuated, gripping the pipe externally.

The introduction of hydraulic set pressure activates a mechanical lock assembly that grips the OD of the pipe whilst simultaneously energising an elastomeric seal in the ID. This allows the pipework to be quickly and efficiently pressure tested with minimum preparation to the pipe end and no remedial work after the E-PEP™ is removed. A through-port allows the system to be filled and pressurised or vented through the E-PEP™. To remove the E-PEP™ from the pipe end, hydraulic pressure is applied to the unset circuit. Retracting the lock assembly and de-energising the seal, allowing the tool to be removed. The E-PEP™ range covers pipe sizes from 3" to 36" complementing the I-PEP™ range.



E-PEP™ 3" - 36" Weights & Dimensions

Tool Ref Size	A - Outside Diameter	B - Overall Length	C - Length Required Of Engagement	Weight
3"	180mm	211mm	75mm	35kg
4"	205mm	200mm	80mm	41kg
6"	265mm	266mm	105mm	74kg
8"	350mm	255mm	115mm	160kg
10"	430mm	365mm	165mm	336kg
12"	470mm	370mm	175mm	397kg
14"	621mm	562mm	200mm	602kg
16"	678mm	562mm	205mm	704kg
18"	732mm	567mm	215mm	825kg
20"	814mm	587mm	245mm	1083kg
24"	892mm	597mm	245mm	1261kg
30"	1080mm	730mm	260mm	2036kg
36"	1279mm	760mm	265mm	3050kg

* E-PEP™ maximum working pressure up to 350 bar / 5076psi.

All data correct at time of publication



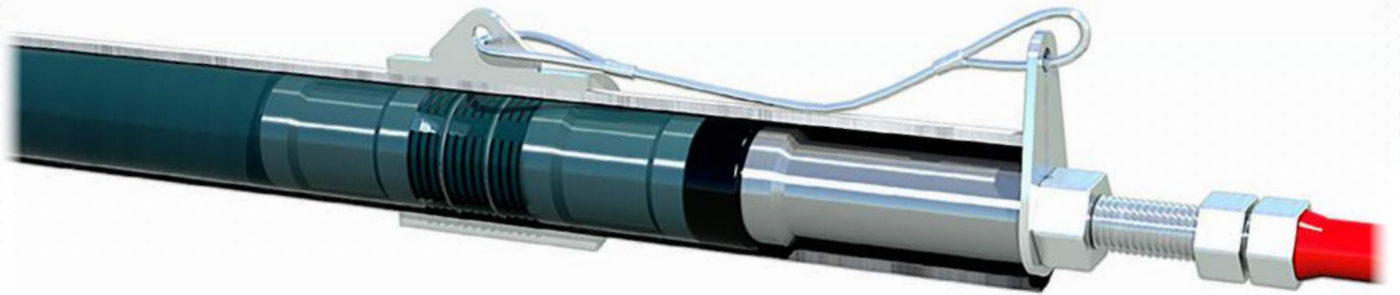
▲ E-PEPs™ installed onto spool to provide hydrostatic pressure test

I-PEP™ (Internal Pipe End Plug)

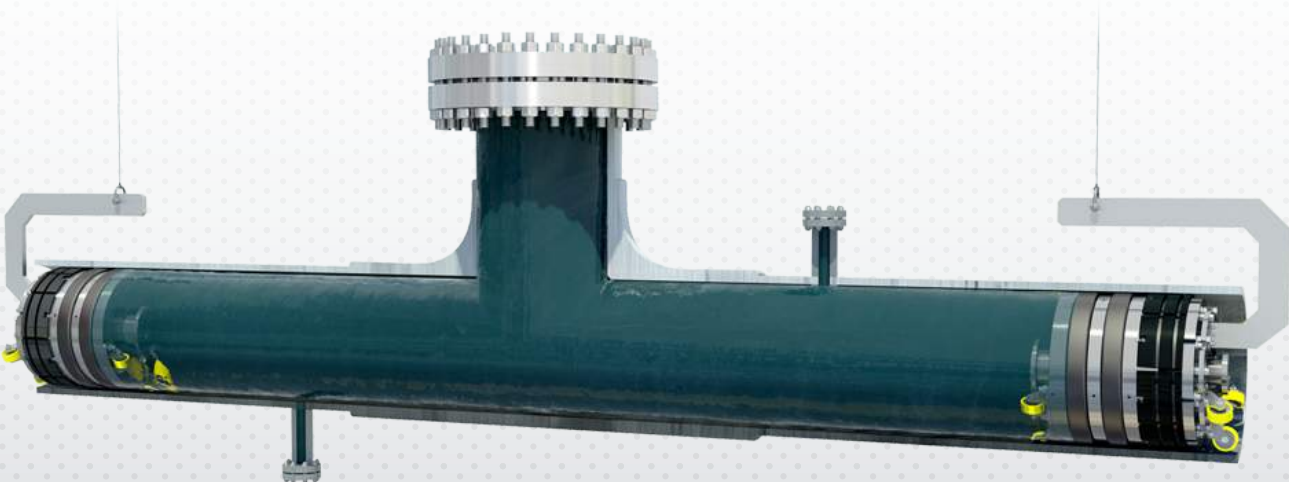
The I-PEP™ series of Pipe End Plugs are inserted into the bore of the pipe and hydraulically actuated. These tools internally grip the pipe allowing hydrostatic pressure tests to be quickly and efficiently performed.

The introduction of hydraulic set pressure activates a mechanical lock assembly that grips the internal diameter of the pipe whilst simultaneously energising an elastomeric seal. This allows the pipework to be quickly and efficiently pressure tested with minimum preparation required to

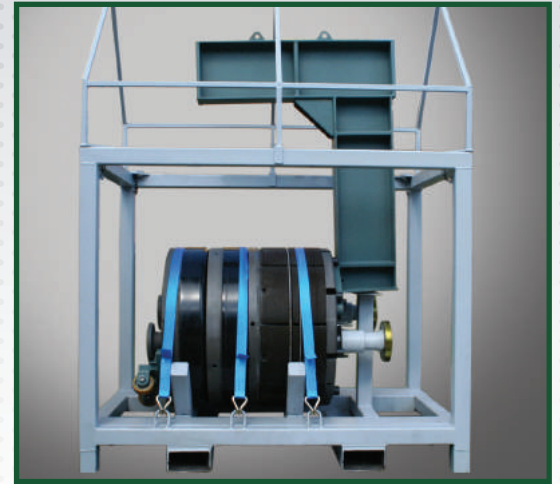
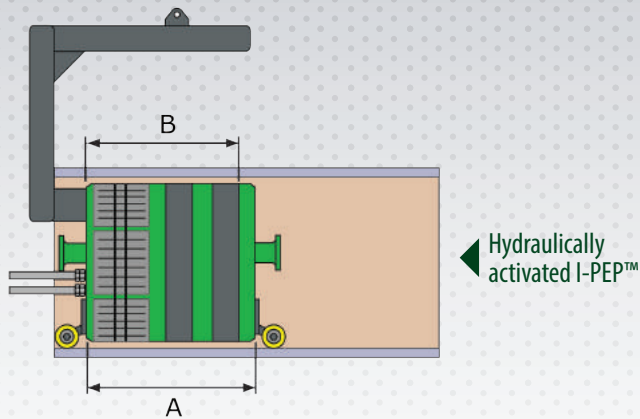
the internal surface of the pipe and no remedial work after the I-PEP™ is removed. A through-port allows the system to be filled and pressurised or vented through the I-PEP™. To remove the I-PEP™ from the pipe, hydraulic pressure is applied to the unset circuit, retracting the lock assembly and de-energising the seal allowing the tool to be removed. Hydraulic I-PEPs™ cover pipe sizes from 30" to 42", however for sizes ¾" to 2" mechanical tools are used and fitted with securing clamps for added safety.



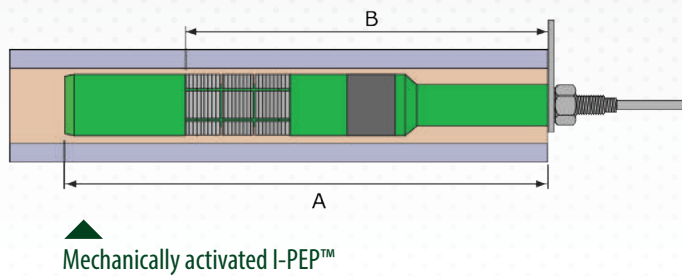
▲ I-PEP™ installed in spool to provide hydrostatic pressure test, securing clamp fitted for added safety



▲ I-PEPs™ installed in spool to provide hydrostatic pressure test



▲ 36" I-PEP™ in Shipping Skid



I-PEP™ 3/4" - 2" Weights & Dimensions

I-PEP Nominal Diameter	Pipe ID (Min - Max)	I-PEP OD	A - Overall Length	B - Length of Engagement	Weight
3/4"	19 - 22mm	17mm	222mm	126mm	1kg
1"	24 - 28mm	22mm	245mm	165mm	1.5kg
1 1/2"	38 - 42mm	34mm	280mm	184mm	2.5kg
2"	49 - 57mm	45mm	280mm	184mm	2.5kg

* Mechanical I-PEP™ maximum working pressure up to 350 bar / 5076 psi.
All data correct at time of publication

I-PEP™ 30" - 42" Weights & Dimensions

I-PEP Nominal Diameter	Pipe ID (Min - Max)	I-PEP OD	A - Overall Length	B - Seal To Lock (Unset)*	Weight
30"	635 - 675mm	625mm	1025mm	584mm	993kg
30"	654 - 694mm	644mm	1025mm	584mm	1062kg
30"	704 - 744mm	694mm	1025mm	587mm	1223kg
32"	754 - 794mm	744mm	1156mm	674mm	1567kg
34"	780 - 820mm	770mm	1151mm	671mm	1686kg
34"	804 - 844mm	794mm	1151mm	674mm	1785kg
36"	835 - 875mm	825mm	1105mm	705mm	2039kg
36"	879 - 919mm	869mm	1105mm	705mm	2180kg
42"	1000 - 1048mm	990mm	1077mm	726mm	2600kg

*Dimension B reduces by approximately 15% - 20% when the tool is in the set position
Hydraulic I-PEP™ maximum working pressure up to 350 bar / 5076 psi.